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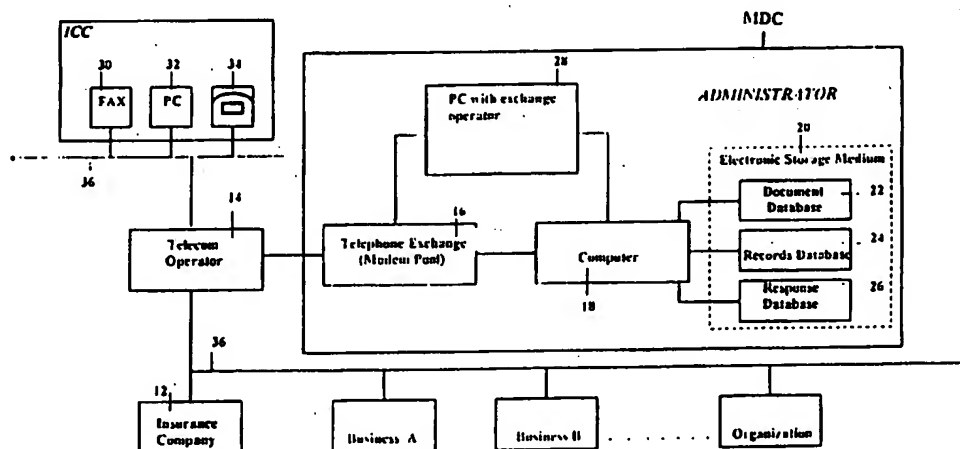
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*With international search report.*

*Before the expiration of the time limits for amending the claims and to be republished in the event of the receipt of amendments.*

(86) Date of publication of the international search report:  
12 September 1996 (12.09.96)

(54) Title: DOCUMENT PRE-PROCESSING SYSTEM



(57) Abstract

The invention comprises a document pre-processing system, administrated by a central operator where documents can be accessed, processed and distributed over a telecommunication network. In an administrator network node, a personal computer is connected to a telephone exchange and a storage medium divided into three different parts; a document database for templates, a records database for filing documents and a response database for document interchange. The system has two different access interfaces, one internal for subscribers to the system and one external for subscriber customers. This gives a differentiated access to document data based on subscriber identities.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 95/01591

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
IPC6: G06F 17/30, G06F 12/14, G06F 17/60 // G06F 153:00 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols)		
IPC6: G06F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
SE,DK,FI,NO classes as above		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
COMPUTER DATABASE (DIALOG), ISA, INSPEC, EPAT, CLAIMS, WPIL, JAPIO, PATFULL		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Patent Abstracts of Japan, Vol 17, No 381, P-1574, abstract of JP, A, 5-61788 (HITACHI LTD), 12 March 1993 (12.03.93)  --	1-18,24-25
Y	"Postnet", Sweden Post, Letter Division, Stockholm, 1993, see whole document  --	1-18,24-25
Y	"Postnet EDI", Sweden Post, Letter Division, Stockholm, 1994, see whole document  --	1-13
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
31 May 1996		27 -06- 1996
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86		Authorized officer  Lars Christerson Telephone No. +46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 95/01591

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	T.A Giuna et al.: "Decentralized authorization for distributed database system", Proceedings of IEEE Southeast con 92, April 12-15 1992, Vol 2, page 618-621, see page 619	14-18,24-25
A	--	19-23
Y	"Cleanup mechanism for access control lists" IBM Technical Disclosure Bulletin, Vol 37, No 11, November 1994, Page 427-429, see page 427	14-18,24-25
A	--	19-23
A	"Technologic Agfa Document Management Information Network", Software World, Vol 20, No 2, 1989, see figure 2, pages 11-13	1-13
A	--	
A	"Documentation on tap", C. Maunder, IEEE Spectrum, September, 1994, page 52-56, see page 55-56	1-13
P,A	US 5410646 A (TONDEVOLD ET AL), 25 April 1995 (25.04.95), column 2, line 20 - column 6, line 61, figures 1-2	1-13
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# INTERNATIONAL SEARCH REPORT

I. International application No.

PCT/SE 95/01591

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1: Claims 1-13: A pre-processing system for documents where the database storing document data is divided into three parts, each having a specific function. Two interfaces are provided, one internal and one external, allowing transactions between database subscribers. This part of the invention solves the problem of managing documents for distribution.

2: Claims 14-23, 24-25: Interfaces and device respectively, the device including interface means for checking subscriber identities. This part of the invention solves the problem of granting access for subscribers to the system.

Since the groups 1 and 2 don't possess common technical contributions over the prior art, there exists a non-unity of the invention.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
  
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest



The additional search fees were accompanied by the applicant's protest.



No protest accompanied the payment of additional search fees.

### Information on patent family members

**01/04/96**

**PCT/SE 95/01591**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A- 5410646	25/04/95	JP-A- 5303531	16/11/93
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